BY ORDER OF THE COMMANDER
AEROSPACE MAINTENANCE AND
REGENERATION CENTER

AMARC INSTRUCTION 21-129

18 FEBRUARY 2000

Maintenance

AMARC CORROSION PROGRAM

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directive (AFPD) 21-1, *Managing Aerospace Equipment Maintenance*; Air Force Instruction (AFI) 21-105, *Aerospace Equipment Structural Maintenance*; Technical Order (TO) 1-1-691, *Aircraft Weapon Systems Cleaning and Corrosion Control;* TO 1-1-689, *Avionics Cleaning and Corrosion Prevention/Control*, and applicable aircraft TOs. It establishes the AMARC corrosion program for the protection of aerospace and ground vehicles, equipment, tooling, and facilities. This instruction applies to the Aircraft Management (LA), Logistics (LG), Plans and Programs (XP) and the Comptroller (FM) Directorates.

SUMMARY OF CHANGES. Updates references, office symbols, publication format and style. Changed paragraphs are indicated with an * (asterisk).

1. GENERAL.

1.1. The designated AMARC Corrosion Program Manager (ACPM) will be appointed in writing by the Process In Division (LAI) Chief and a copy will be sent each directorate and to all division corrosion monitors.

1.2. All activities potentially have corrosion problems - aircraft, missile, support equipment (SE), engines, real property installed equipment (RPIE), vehicles, tooling, etc.

1.3. Everyone in construction, operation, repair, inspection, or maintenance of aerospace-related items, is responsible for corrosion prevention and control.

2. RESPONSIBILITIES AND PROCEDURES:

2.1. The LA and LG directors will:

2.1.1. Ensure each division chief appoints a primary corrosion monitor and an alternate who will monitor and report corrosion problems to the ACPM.

2.1.2. Annually, no later than 15 January, send a letter to the ACPM with the names of the assigned primary and alternate corrosion control monitors for the divisions. A negative reply is required. Any monitor changes occurring during the year will be sent to the ACPM in writing.

2.1.3. Ensure the AMARC Corrosion Program is implemented and divisions are performing required duties in accordance with (IAW) AFI 21-105 and this instruction.

2.2. The ACPM will:

2.2.1. Send yearly reports to Air Force Research Laboratory (AFRL), Aerospace Structural Materials Sustainment Office (ASMSO), Air Force Corrosion Prevention and Control Office with input from LA and LG.

2.2.2. Provide technical assistance or arrange a contract for corrosion problems, treatment, materials use, removal, etc.

2.2.3. Provide training for primary corrosion monitors and alternates as necessary.

2.2.4. Conduct annual corrosion surveys of aerospace-related items stored outside.

2.2.5. Provide technical assistance at Tri-Service Task Team meetings IAW the Interservice Support Agreement (ISA), to discuss and develop tests to improve preservation and storage techniques and to prevent and control corrosion.

2.2.6. Conduct meetings as necessary with all AMARC corrosion monitors or alternates.

2.2.7. Distribute copies of the Air Force Corrosion Summary to the Specialist Support Division (LAS), Corrosion Control Branch (LASC) and division corrosion monitors.

2.2.8. Monitor corrosion control problems that occur. Inform LASC of actions taken.

2.2.9. Conduct an annual corrosion survey of stored missiles with LASC. Include the results of the survey in the appropriate yearly report to the AF Corrosion Prevention and Control Office.

2.3. Division corrosion monitors will ensure the listed tasks are accomplished within their applicable branch:

2.3.1. Receiving Branch (LAIR) will document corrosion found during the process in examination and evaluation (E&E) inspection on AFMC Forms 959, **Work Control Document,** or other work control document and enter it in the workbook for the aircraft.

2.3.2. LASC will enter into the work control document any additional corrosion not found during initial in-processing. A new work control document is required for corrosion found during preservation and the document is included in the aircraft workbook. Coordinate with the Workload Division (FMW), LAIO, LAAS and the ACPM when additional corrosion is found during preservation and requiring work beyond the time allocated.

2.3.3. The Storage Services Branch (LAIS) will enter on the work control document, any corrosion discovered during maintain-in and not reported by E&E. They will notify the ACPM by telephone if any corrosion is significant.

2.3.4. The Electronics Avionics Branch (LASA), Radio/Radar function will submit quarterly written reports to the ACPM, describing all electronic parts, equipment, radios, etc., that were rejected due to corrosion problems.

2.3.5. The Reclamation Division, Non-Destruction Inspection (NDI) Branch (LARI) will submit quarterly written reports to the ACPM describing reclaimed parts rejected due to corrosion. Identify each rejected part by the part number, nomenclature, and type of corrosion.

2.3.6. The Reclamation (A, B, C) Branches (LARA, LARB, LARC) will call the ACPM about any moisture or corrosion found during parts removal.

2.3.7. Logistics Support Division (LGL) will coordinate with the FMW to ensure:

2.3.7.1. Funding is available before scheduled preservation of aircraft tooling, communication-electronic-meteorological (CEM) equipment, and aircraft parts, covered by negotiated memorandum of agreement (MOA).

2.3.7.2. Packaging specifications are followed for outside storage.

2.3.8. The LG division corrosion monitors will:

2.3.8.1. Conduct random surveys of incoming, outgoing and storage assets and call to report to the ACPM if any significant corrosion problems are found.

2.3.8.2. Conduct inspection of the LG storage areas once every 2 months.

2.3.8.3. Send copies to the ACPM of all LG internal instructions and changes which impact or relate to the AMARC Corrosion Program.

2.4. All corrosion monitors will also :

2.4.1. Attend corrosion meetings at the date, time and location determined by the ACPM.

2.4.2. Monitor their areas for corrosion problems and report problems immediately to the ACPM. Provide a consolidated, quarterly written report to the ACPM.

2.4.3. Provide feedback for the ACPM review of all information received from outside agencies concerning corrosion problems on aircraft or stored property that left AMARC.

2.5. Building managers will notify Plans & Programs Division, Facilities (XPXF) for corrective actions after finding corrosion on real property.

2.6. All AMARC personnel will immediately call the ACPM to report any problems pertaining to corrosion removal compounds, cleaners, paints, coatings, covers and associated materials.

3. CORROSION PREVENTION AND CONTROL TRAINING.

3.1. All newly assigned corrosion control specialists and monitors are required to complete a basic corrosion course identified by the ACPM within 90 days of their arrival or appointment.

3.2. Education and Training Division (XPT) will schedule an annual corrosion training course to be viewed by all LASC, LARI (NDI) and LAIR personnel and AMARC corrosion monitors.

OFFICIAL

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